

## **INTEGRAL COMPOSITE WAX-POLYMER MEMBRANES**

### **ABSTRACT OF THE DISCLOSURE**

A composite barrier membrane coated on a substrate and membrane is formed by phase inversion technique utilizing a water-insoluble wax and a water-insoluble polymer dissolved in a solvent. The barrier membrane coated upon the substrate is used to control transmembrane transport of a liquid and a gas. The substrate can be a starch based food package material, a protein based food package materials, a natural fabric, a synthetic fabric, or a paper product.